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(54) ESTIMATING METHOD FOR COLOR REPRODUCTION CHARACTERISTIC USING COLOR PATCH

(57)Abstract:
PURPOSE: To improve color reproduction characteristics by finding combination of Y, M, C and K where K reaches the maximum density value for each specific point of color coordinates given discretely, and estimating the density value of Y, M, C, and K corresponding to the color coordinates except the specific point from the colorimetry of a color patch formed by the discrete combination.
CONSTITUTION: When the discrete point number (n) of Y, M, C, and K is selected as five, and the maximum quantizing level as 256, each point interval is 64 steps. By combining basic colors Y, M, C and K of these five points (0, 64, 128, 192, 255), actual recording is performed on a recording medium. For instance, when recording is carried out on a printing sheet with ink, color patches are obtained. The color patches are actually subjected to colorimetry, the colorimetric values are converted into the value of a colored system L*u*v* by using a conversion formula regarding another colored system; moreover, they are plotted at every color patch. Then, a colorimetric value of each color patch corresponds to each lattice point. Therefore, the color reproduction characteristic can be improved.
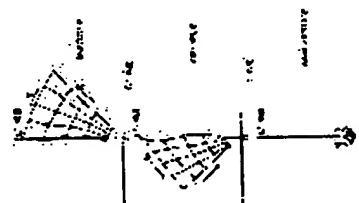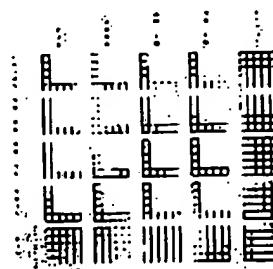
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